



# Digital Grange & the Sensored Landscape

Ignite Spatial Vermont Lightning Talks

4-17-12

John R. Hanning, GISP  
Archimedes Aerospace

# A Digital Grange for the 21<sup>st</sup> Century

- “Grange” = Old English for farm & farm lore
- Your Local Grange Hall:
  - agricultural fraternal benevolent organization
  - institutional memory of a place and people
  - Your valley mentors/peers
  - People spoke for the land
  - “Push” oral knowledge
- Today’s Grange are all rural residents & farmers
- Your digital Grange Hall is a mobile Smartphone:
  - Web 2.0 tools/apps
  - Portable mentors/peers
  - Land and sea speak directly to us by wireless sensors we bring along or leave in place
  - “Pull” knowledge by nodes

# Collapse Time & Distance

Place is WHERE you are now & can revisit accurately

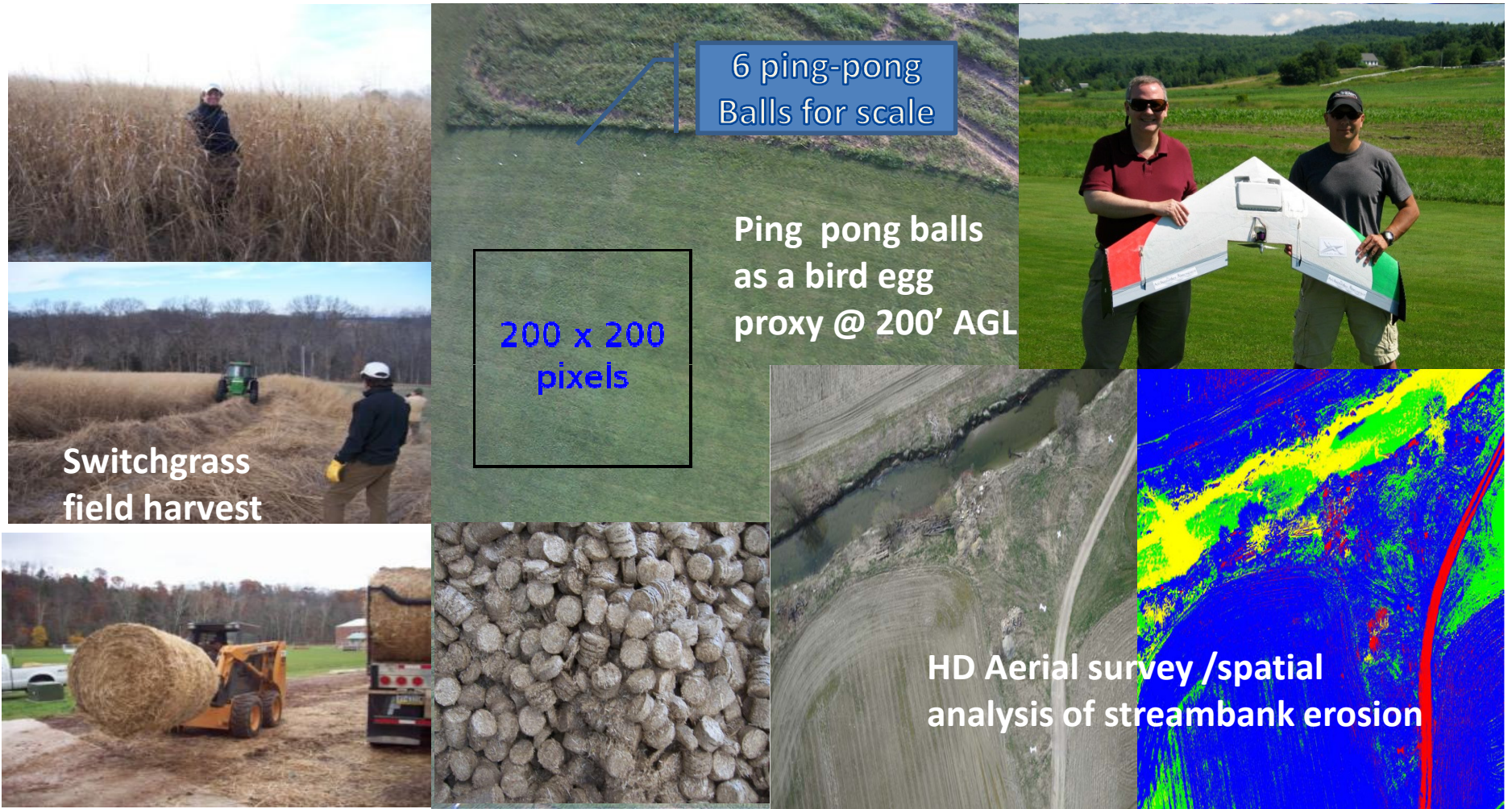
Value is WHERE you place attention on





# Collapse Knowledge Silos to find value

Innovate Faster to make water quality protection self-funding





# Collapse Volume to add value

Increase Density within economic use radius

Spatial data [grass biofuel capacity] becomes value gradient



Field



Delivery  
for  
processing



Compacting  
Switchgrass into  
Briquettes



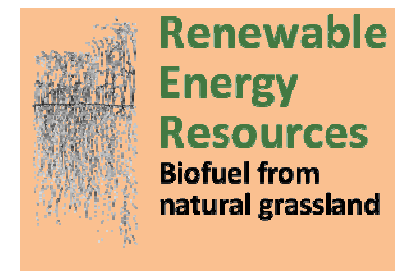
Flue



Boiler

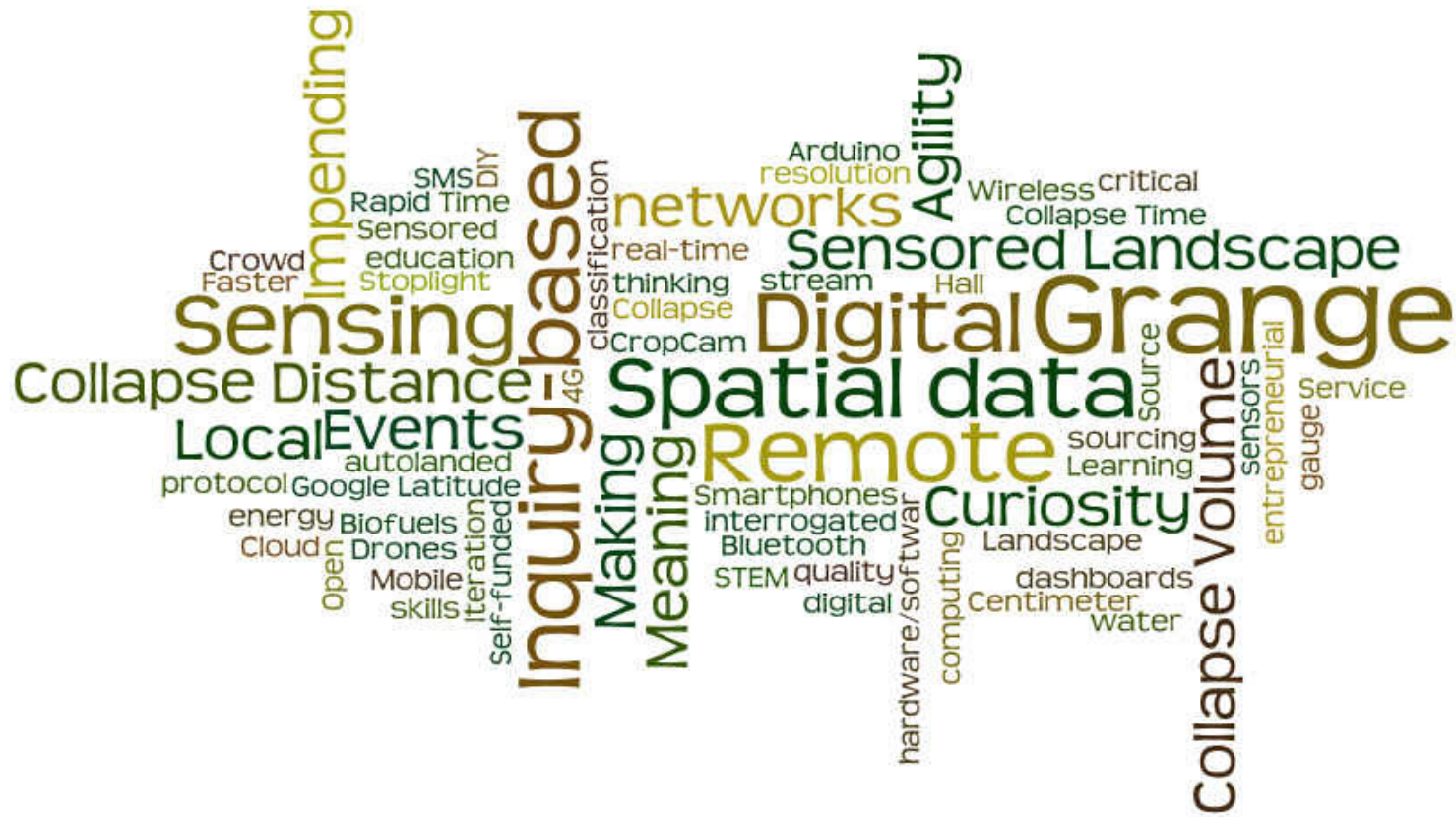


Local Storage



**RER grass  
biofuels saved  
the City of  
Benton, PA  
School District  
~\$147,000/yr in  
the 2010-11 &  
2011-12 heating  
seasons**

# Digital Grange Word Cloud



# Archimedes Aerospace

# Contact Info

John R. Hanning, GISP  
Archimedes Aerospace LLC  
P.O. Box 734  
Montpelier, VT 05601-0734  
802-505-1925 office/mobile  
[jhanning@archimedes-aerospace.com](mailto:jhanning@archimedes-aerospace.com)

